

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appellant:	Jacob MCGUIRE	§	Confirmation No.:	9953
		§		
Serial No.:	09/843,815	§	Group Art Unit:	2154
		§		
Filed:	April 30, 2001	§	Examiner:	Jinsong Hu
		§		
For:	Automated Deployment and	§	Docket No.:	200704490-1
	Management of Network	§		
	Devices	§		

SUPPLEMENTAL APPEAL BRIEF

Mail Stop Appeal Brief – Patents

Date: December 18, 2007

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Appellants hereby submit this Supplemental Appeal Brief in response to the Notice of Non-Compliant Appeal Brief dated July 18, 2007, for the above-identified application. A Notice of Appeal was filed on October 7, 2005. This appeal is from the decision of the Primary Examiner dated May 17, 2005, finally rejecting claims 1-4 and 8-21, which are reproduced as the Claims Appendix of this Brief.

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I. REAL PARTY IN INTEREST

The real party in interest is the Hewlett-Packard Development Company (HPDC), a Texas Limited Partnership, having its principal place of business in Houston, Texas. HPDC is a wholly owned affiliate of Hewlett-Packard Company (HPC). The rights in the subject application were previously owned by Opsware, Inc., formerly known as Loudcloud, Inc.

II. RELATED APPEALS AND INTERFERENCES

With respect to other prior or pending appeals, interferences, or related judicial proceedings that will directly affect, or be directly affected by, or have a bearing on the Board's decision in the pending appeal, there are no other such appeals, interferences, or related judicial proceedings.

III. STATUS OF THE CLAIMS

- (a) Total Number of Claims in Application
21 claims are pending.
- (b) Status of All the Claims in Application
 - i. Claims pending: Claims 1-21
 - ii. Claims rejected: Claims 1-4 and 8-21
 - iii. Claims containing allowable subject matter: Claims 5-7
- (a) Claims on Appeal
Claims 1-4 and 8-21 are being appealed.

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IV. STATUS OF THE AMENDMENTS

There were no amendments filed subsequent to the final Office Action.

V. SUMMARY OF THE CLAIMED SUBJECT MATTER

The appealed claims comprise two independent claims, namely claims 1 and 16. Claim 1 recites a system for automatically configuring a plurality of different types of network devices (page 1, line 21 to page 2, line 5; page 5, line 25 to page 6, line 4; Figure 1, elements 10, 12, 14, 16, 18, 20). The system includes a library of generic commands that can be applied to said devices (page 9, lines 5-10; Figure 4, elements 32, 34) and converters for converting each of said generic commands into device-specific commands to be applied to individual network devices (page 10, lines 9-23; Figure 4, elements 36a-36n). The system also includes a database storing configuration parameters for said plurality of network devices (page 11, lines 22-26, page 12, lines 3-11; Figure 5, element 40). Finally, claim 1 recites that the system comprises a configuration interface which receives said parameters from said database and issues generic commands to said library to cause individual ones of said devices to be configured in accordance with said parameters (page 11, lines 26-28; page 17, lines 12-24; Figure 5, element 42).

Claim 16 recites a method for automatically configuring a plurality of different types of network devices (page 1, line 21 to page 2, line 5; page 5, line 25 to page 6, line 4; Figure 1, elements 10, 12, 14, 16, 18/20). The method includes a step of storing a library of generic commands for configuring said devices (page 9, lines 5-10; Figure 4, elements 32, 34). A second step comprises linking a plurality of converters respectively associated with different ones of said network devices to said library, to convert said generic commands into device-specific commands to be applied to the associated devices (page 10, lines 9-23; Figure 4, elements 36a-36n). The third step comprises retrieving a set of parameters from a database that pertains to the configuration of one type of network device (page 2, lines 12-13; Figure 5, element 40). As a final step, in response to receipt of said set of parameters, claim 16 recites issuing generic commands to said library to cause a device of said one type to be configured in accordance with said parameters (page 12, lines 13-24).

VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

The final Office Action presents two grounds of rejection for review on this appeal:

1. Claims 1-4, 8, 9, 11, 12, 14, 16, 17, 20, and 21 stand rejected under 35 U.S.C. § 102(e) as being anticipated by the Merchant et al patent application publication (US 2002/0128815);
2. Claims 10, 13, 15, 18 and 19 stand finally rejected under 35 U.S.C. § 103, as being unpatentable over the Merchant publication in view of "Official Notice".

VII. ARGUMENT

A. Rejection Under 35 U.S.C. § 102

1. Claims 1 and 16

As stated in MPEP § 2131, "A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference", quoting *Verdegaal Bros. v. Union Oil Co. of California*, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987). The final Office Action does not meet this standard, since it fails to identify where the Merchant publication discloses "each and every" element recited in the claims.

Claim 1 recites a library of generic commands that can be applied to different types of network devices, and converters that convert the generic commands into device-specific commands. The claim further recites a database storing configuration parameters for the network devices, and a configuration interface which receives said parameters from said database and issues generic commands to said library.

In rejecting the claim, the Office Action refers to elements 410 and 412 in Figure 4 of the Merchant publication as the claimed database. However, the reference does not disclose, nor otherwise suggest, that these elements constitute a database storing configuration parameters. Rather, they are respectively described as a device-specific module that "provide[s] information that allows the device-independent commands to be translated to device-specific commands" and as a host-specific module that "provide[s] information that allows the host-independent commands to be translated to device-specific commands" (Paragraphs 44 and 45). In other words, these modules are the components that perform the functions described in Paragraph 29 and Paragraph 43, lines 6-10, which were cited in the Office Action in connection with the claimed converters. The only function described in the reference for these modules is that of converting device-independent commands into device-specific commands. There is no teaching in the reference to support the assertion that they comprise a database storing configuration parameters for network devices. The reference does not disclose this claimed element.

Claim 1 recites a configuration interface "which receives said parameters from said database and issues generic commands to said library ..." The final Office Action refers to the Merchant publication at paragraphs 21-23, 25 and 28-32. Appellant is unable to find any teaching of the claimed subject matter in these portions of the reference, or elsewhere within its contents. In particular, there is no disclosure of an interface that receives configuration parameters from a database. (As noted above, the publication does not disclose a database storing configuration parameters.) Nor is it apparent from the Office Action what elements in the Merchant publication are considered to be an interface that issues generic commands to cause network devices to be configured in accordance with received parameters. There is no supportable showing that the reference discloses a configuration interface that operates in the manner recited in claim 1.

For at least these reasons, the final Office Action fails to meet the requirements for rejecting claim 1 as being anticipated by the Merchant publication, since it does not show that "each and every element" of the claim is described in the reference. For the same reasons, claim 16 is not anticipated. It recites a method that includes the following steps, among others:

- retrieving a set of parameters from a database that pertains to the configuration of one type of network device;
- and

- in response to receipt of said set of parameters, issuing generic commands to said library to cause a device of said one type to be configured in accordance with said parameters.

Since the Merchant publication does not disclose a database that stores information pertaining to the configuration of network devices, it cannot be interpreted to disclose the claimed "pertaining" step. Likewise it does not disclose the step of issuing commands to cause a device to be configured "in accordance with said parameters".

2. Claims 2-4, 8, 9, 11, 12, 14, 17, 20, and 21

Claim 2 recites that the interface issues commands to the library to obtain configuration Information from individual devices, "and stores said information in said database." In rejecting this claim, the final Office Action refers to paragraphs 31 and 32 of the Merchant publication. While this portion of the reference discloses that configuration information is obtained from the devices, it does not disclose that such information is stored in a database of configuration parameters: Rather, it only discloses that the responses provided by the devices are used to generate device/host independent commands.

Claim 3 recites that the configuration parameters are stored in the database as a model containing a list of values to which each configuration parameter in an individual one of the devices is to be set, and claim 4 recites, that the model also identifies the specific sequence in which the setting of the parameter values is to take place. These claims are rejected with reference to module 410 shown in Figure 4 of the Merchant publication, as well as paragraph 44, lines 8-11. However, this portion of the reference has nothing to do with the storage of a model in a database. Rather, as noted previously, it describes that the modules 410 relate device-specific commands to device-independent commands. There is no discussion of a database, let alone the particulars of a model that might be stored in such a database.

Claim 8 recites that the interface functions to command a console server to send a message to each console connected to the console server, analyze a response to the message that is provided by each console to determine the type of device which transmitted the response, and display a list of device types corresponding to the consoles connected to the console server. This claim is rejected with reference to paragraphs 31 and 32 of the Merchant publication. As discussed above, this portion of the reference discloses that the devices can be queried, and that the responses provided by the devices are used to generate device/host independent commands. There is no teaching of determining device types from those responses, or of "displaying a list of device types corresponding to the consoles", as recited in the claim.

Claim 9 recites that the system includes a memory storing a template which contains a sequence of commands for configuring each of a plurality of devices of a given type, and that each command that refers to a particular device contains a variable as the identification of the device. The claim also recites that the database stores a record which indicates the respective network address of each specific device for which a given device is to be configured, and that the interface is responsive to a command to configure a given device to retrieve the template and the stored record associated with a given device, substitute the network addresses in the retrieved record for the variables in the template, and issue commands to configure the given device in accordance with the retrieved record and the template. Claims 11 and 12 depend from claim 9, and recite further specifics of the templates.

The rejection of claim 9 is based upon paragraphs 29, 32, 33, and 44-46 of the Merchant publication. None of these portions of the reference discloses the use of a template, nor the substitution of network addresses stored in a database for variables in the template, to generate the commands that are sent to a device. Nor does the final Office Action explain how they might be interpreted to disclose such subject matter. There is simply no support in the reference for the rejection of claims 9/11, and 12.

Claim 14 recites that the converters transmit the commands in accordance with a transmission protocol that is specific to the individual devices. The rejection of this claim refers to steps 220 and 222 illustrated in the flowchart of Figure 2 of the Merchant publication. These elements of the reference pertain to the translation of device/host independent commands into device-specific commands. The reference is silent as to the protocol that is used to transmit the commands. As such, it does not describe the subject matter recited in claim 14.

Claim 17 recites that the converters comprise respective plug-in modules that are registered with the library to receive generic commands directed to the devices with which they are associated. The final Office Action states that this claim is rejected "for the same basis as claims 1-4 . . ." (Office Action at page 4, section 11). However, claims 1-4 do not recite the details of the converters that

are set forth in claim 17, and the rejection of claims 1-4 does not indicate where the reference might teach the use of plug-in modules as recited in claim 17. As such, the Office Action fails to identify any support in the reference for the rejection of claim 17.

Claims 20 and 21 are also rejected for the same reasons as claims 1-4. For the reasons presented previously with respect to the rejection of claims 3 and 4, the Merchant publication does not anticipate the subject matter of claims 20 and 21.

B. Rejection under 35 U.S.C. § 103 of claims 10, 13, 15, 18, and 19

Regarding the rejection of each of claims 10, 13, 15, 18 and 19 as allegedly unpatentable over the Merchant publication in view of "Official Notice," Appellant respectfully notes that dependent claims 10, 13 and 15 depend upon independent claim 1, and thus each include all of the limitations of independent claim 1, and further notes that dependent claims 18 and 19 similarly depend upon independent claim 16, thus including all of the limitations of independent claim 16. Appellant respectfully submits that because the Merchant publication does not teach or suggest all of the limitations of either claim 1 or claim 16 for at least the reasons presented above, and because the taking of "Official Notice" does not overcome the deficiencies of the Merchant publication, neither the Merchant publication nor the Official Notice taken by the Examiner, either alone or together, teach or suggest all of the limitations of dependent claims 10, 13, 15, 18 and 19.

Because none of the cited art teaches or suggests all of the limitations of the rejected claims, the Examiner has not met the initial burden of factually supporting the *prima facie* conclusion of obviousness alleged. See MPEP §§ 2142 and 2143.03. Thus, Appellant respectfully submits that, for at least the reasons submitted above, the Examiner erred in rejecting dependent claims 10, 13, 15, 18 and 19. Accordingly, Appellant respectfully requests that the rejections of these claims be reversed.

VIII. CONCLUSION

For the reasons stated above, Appellant respectfully submits that the Examiner erred in rejecting claims 1-4 and 8-21, and respectfully requests reversal of the rejections. It is believed that no extensions of time or fees are required, beyond those that may otherwise be provided for in documents accompanying this paper. However, in the event that additional extensions of time are necessary to allow consideration of this paper, such extensions are hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required (including fees for net addition of claims) are hereby authorized to be charged to Hewlett-Packard Development Company's Deposit Account No. 08-2025.

Respectfully submitted,

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IX. CLAIMS APPENDIX

Claims on Appeal:

1. A system for automatically configuring a plurality of different types of network devices, comprising
a library of generic commands that can be applied to said devices and converters for converting each of said generic commands into device-specific commands to be applied to individual network devices;
a database storing configuration parameters for said plurality of network devices; and
configuration interface which receives said parameters from said database and issues generic commands to said library to cause individual ones of said devices to be configured in accordance with said parameters.
2. The system of claim 1 wherein said interface issues commands to said library to obtain configuration information from individual devices, and stores said information in said database.
3. The system of claim 1 wherein said configuration parameters are stored in said database as a model containing a list of values to which each configuration parameter in an individual one of said devices is to be set.
4. The system of claim 3 wherein said model also identifies the specific sequence in which the setting of the parameter values is to take place.

8. The system of claim 1 wherein said interface includes:
means for commanding a console server to send a message to each console connected to said console server;
means for analyzing a response to said message provided by each console to determine the type of device which transmitted said response; and
means for displaying a list of device types corresponding to the consoles connected to said console server.

9. The system of claim 1 further including a memory storing a template which contains a sequence of commands for configuring each of a plurality of devices of a given type, wherein each command that refers to a particular device contains a variable as the identification of the device; and wherein:

said database stores a record which indicates the respective network address of each specific device for which a given device is to be configured, and
said interface is responsive to a command to configure a given device for retrieving said template and the stored record associated with said given device, substituting the network addresses in the retrieved record for the variables in said template, and issuing commands to configure the given device in accordance with said retrieved record and said template.

10. The system of claim 9 wherein said network addresses comprise Internet Protocol (IP) addresses.

11. The system of claim 9 wherein a plurality of templates are stored in said memory, each corresponding to a different respective type of device.

12. The system of claim 11 wherein said templates are stored in said database.

13. The system of claim 3 wherein each parameter setting in said model is used to construct a separate command, and said commands are stored in a queue to be individually retrieved and forwarded to said library by said interface.

14. The system of claim 1 wherein said converters transmit each of said commands in accordance- with a transmission protocol specific to the individual devices, respectively.

15. The system of claim 14 wherein one of said transmission protocols comprises Telnet.

16. A method for automatically configuring a plurality of different types of network devices, comprising the following steps:

storing a library of generic commands for configuring said devices;

linking a plurality of converters respectively associated with different ones of said network devices to said library, to convert said generic commands into device-specific commands to be applied to the associated devices;

retrieving a set of parameters from a database that pertains to the configuration of one type of network device; and

in response to receipt of said set of parameters, issuing generic commands to said library to cause a device of said one type to be configured in accordance with said parameters.

17. The method of claim 16, wherein said converters comprise respective plug-in modules that are registered with the library to receive generic commands directed to the devices with which they are associated.

18. The method of claim 16, wherein the step of issuing generic commands comprises the steps of:

generating a corresponding generic command for each parameter in the retrieved set of commands;

storing the generated commands in a queue;

presenting a first command in the queue to said library, to be converted and transmitted to the device as a device-specific command; and

in response to a reply to the transmitted command, presenting the next command in the queue to the library.

19. The method of claim 18, wherein the reply to one of the transmitted commands contains information describing the configuration of the device, and further including the step of storing said information in the database.

20. The method of claim 16, wherein said set of parameters defines a model containing values to which configuration parameters of the device are to be set.

21. The method of claim 20, wherein said model identifies a specific sequence in which the setting of the parameter values is to occur.

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X. EVIDENCE APPENDIX

Not applicable in the present appeal.

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XI. RELATED PROCEEDINGS APPENDIX

Not applicable in the present appeal.